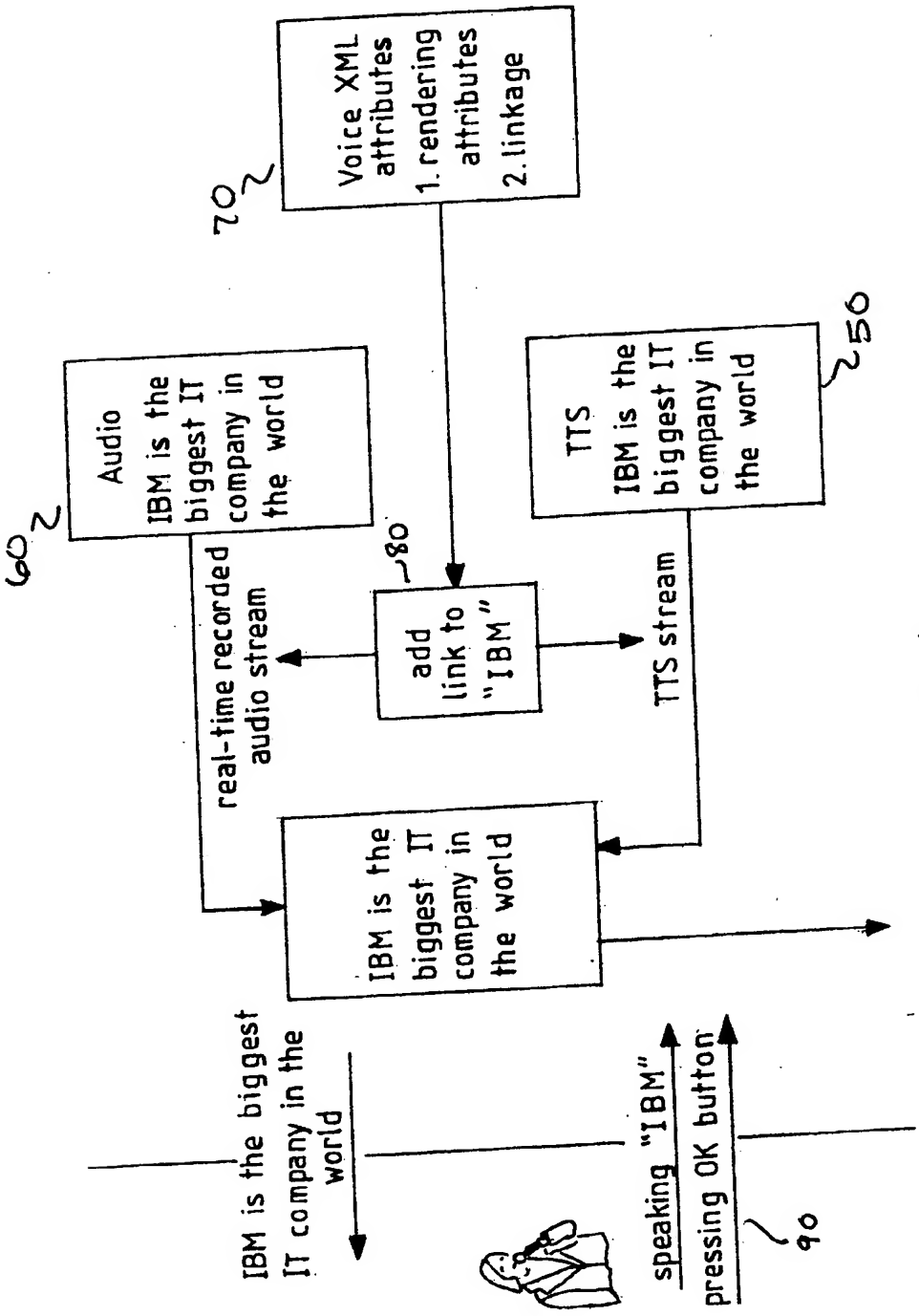
Voice XML attributes
1. rendering attributes
2. linkage
70
Audio
IBM is the biggest IT company in the world
60
TTS
IBM is the biggest IT company in the world
250
80
add link to "IBM"
real-time recorded audio stream
TTS stream
IBM is the biggest IT company in the world
IBM is the biggest IT company in the world
speaking "IBM"
pressing OK button
90

FIG. 1

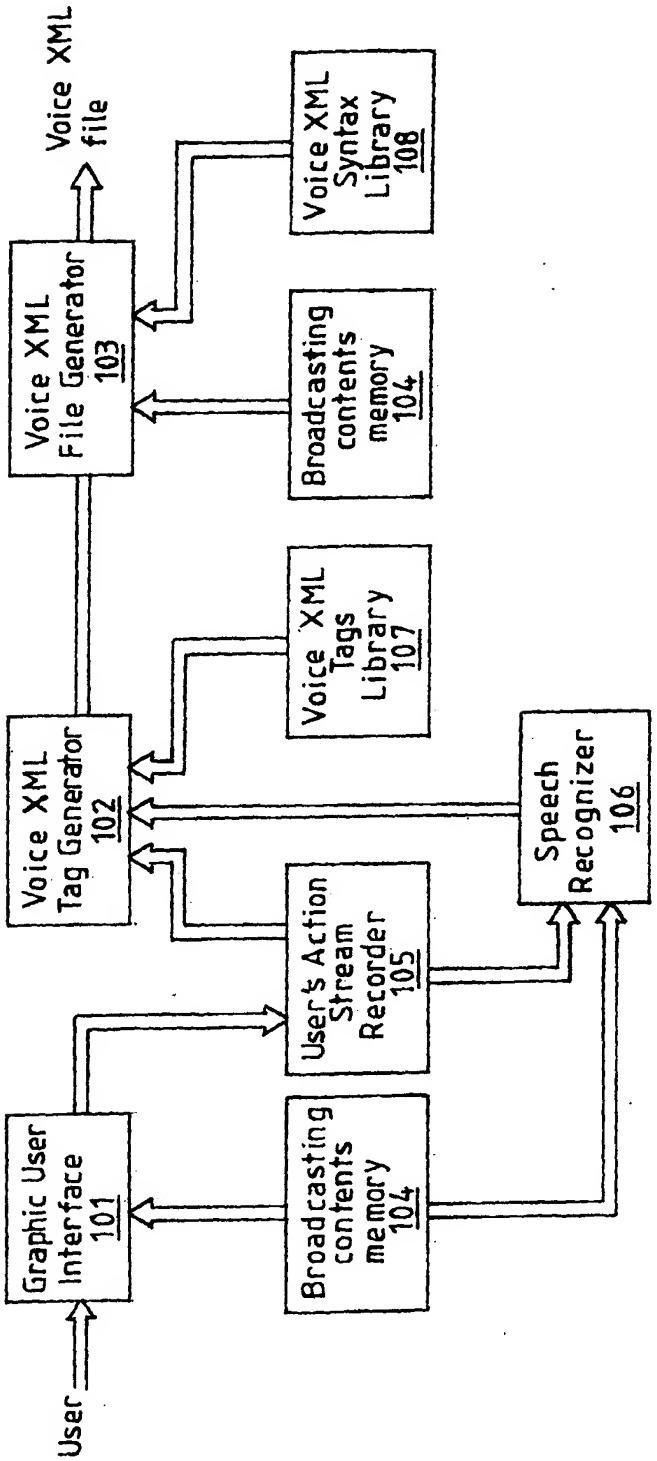
User
Graphic User Interface 101
Broadcasting contents memory 104
User's Action Stream Recorder 105
Voice XML Tag Generator 102
Voice XML Tags Library 107
Speech Recognizer 106
Voice XML File Generator 103
Broadcasting contents memory 104
Voice XML Syntax Library 108
Voice XML file

FIG. 2

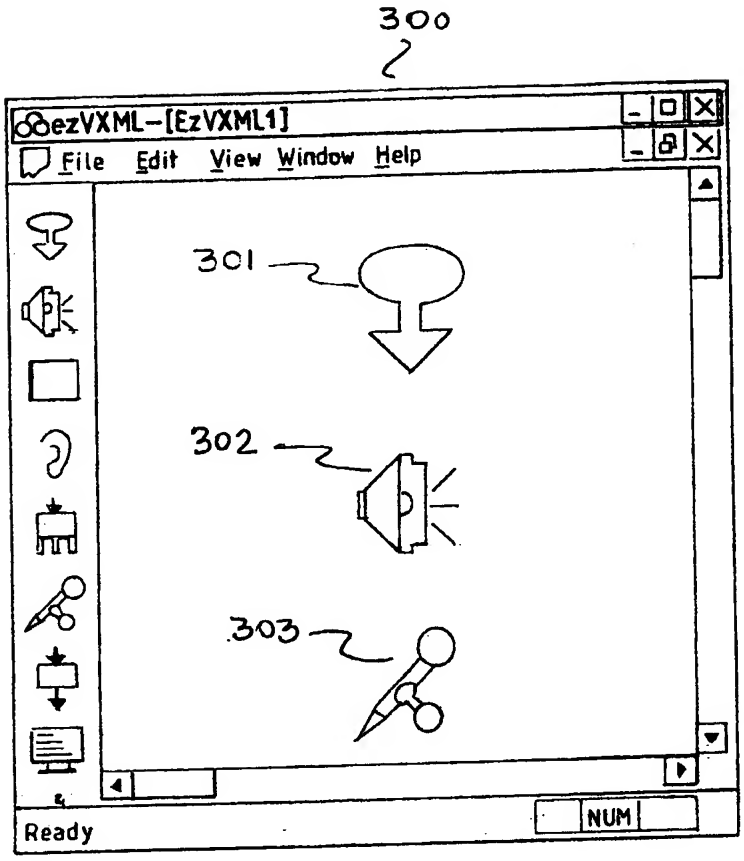
300
ezVXML-[EzVXML1]
File Edit View Window Help
301
302
303
Ready
NUM

FIG. 3

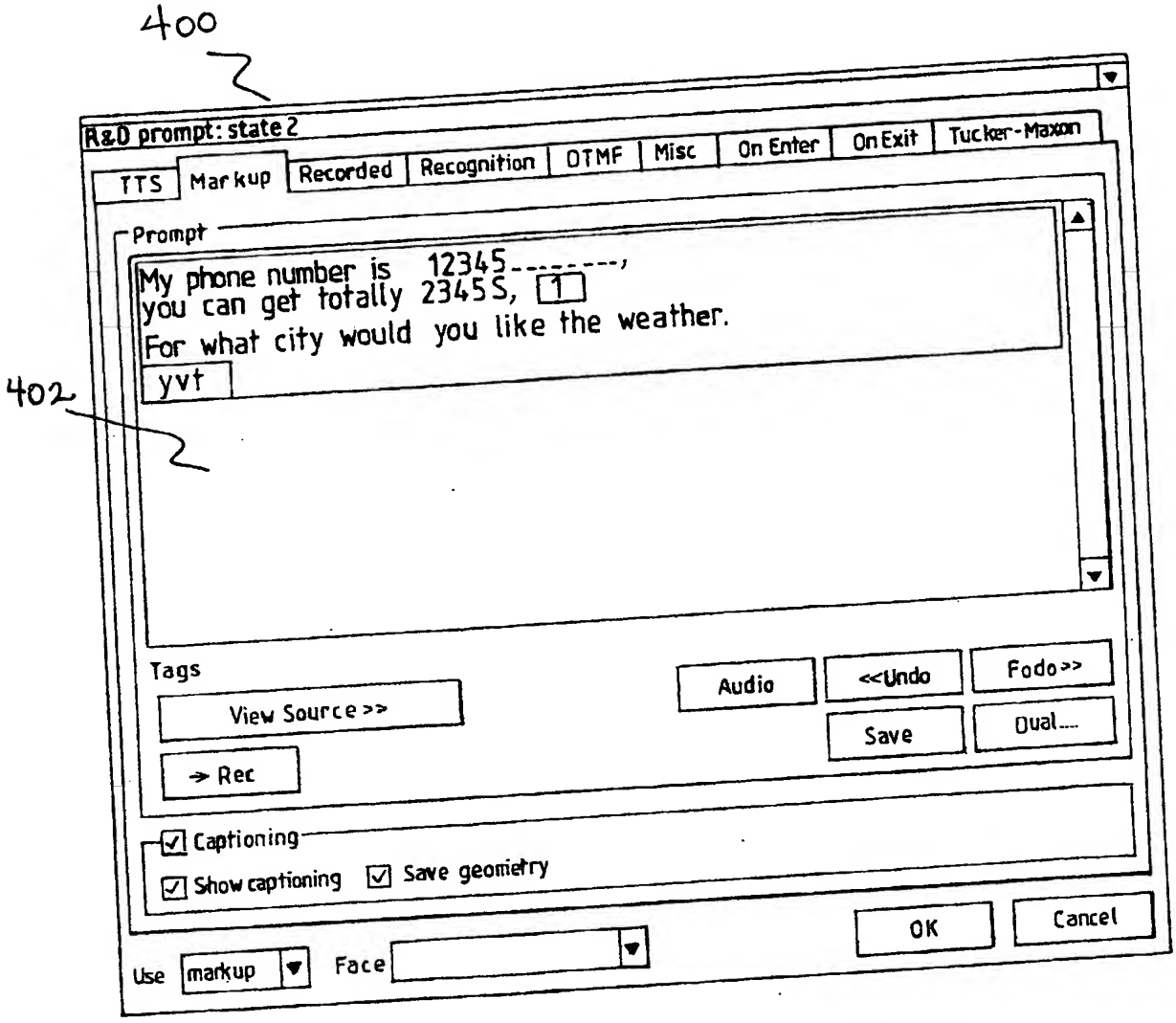
400
R&D prompt: state 2
TTS
Markup
Recorded
Recognition
DTMF
Misc
On Enter
On Exit
Tucker-Maxon
Prompt
My phone number is 12345--------,
you can get totally 2345S, 1
For what city would you like the weather.
yvt
402
Tags
View Source >>
→ Rec
Audio
<<Undo
Redo>>
Save
Dual...
Captioning
Show captioning
Save geometry
OK
Cancel
Use
markup
Face

FIG. 4

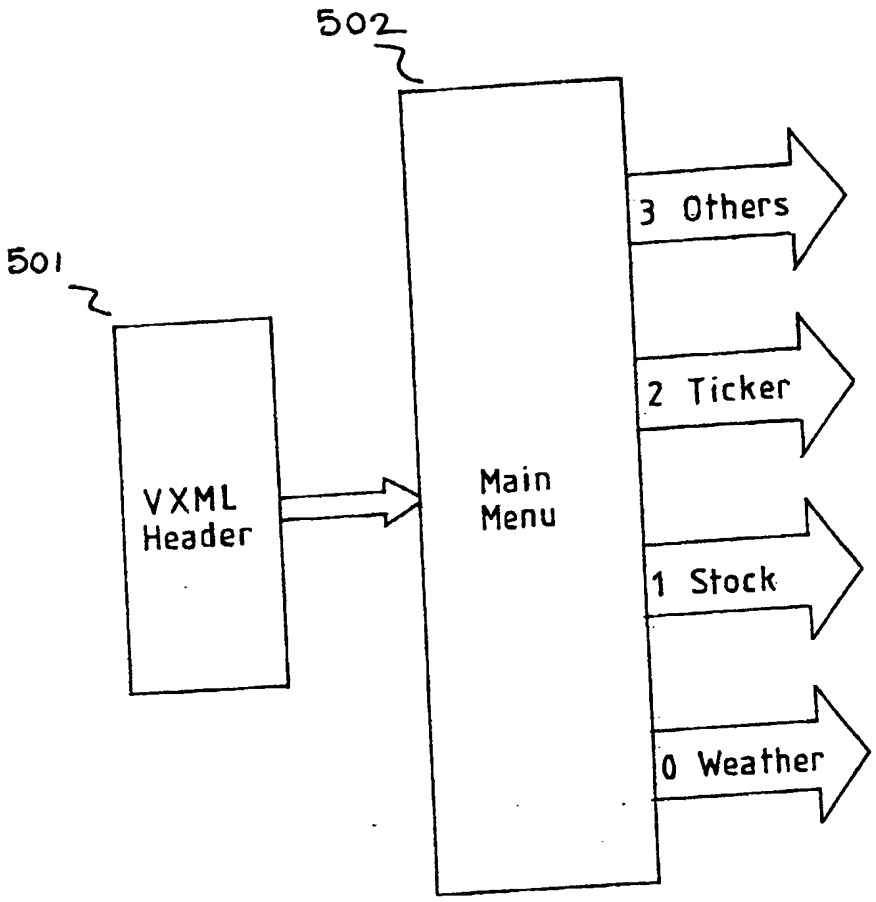
502
501
VXML
Header
Main
Menu
3 Others
2 Ticker
1 Stock
0 Weather

FIG. 5

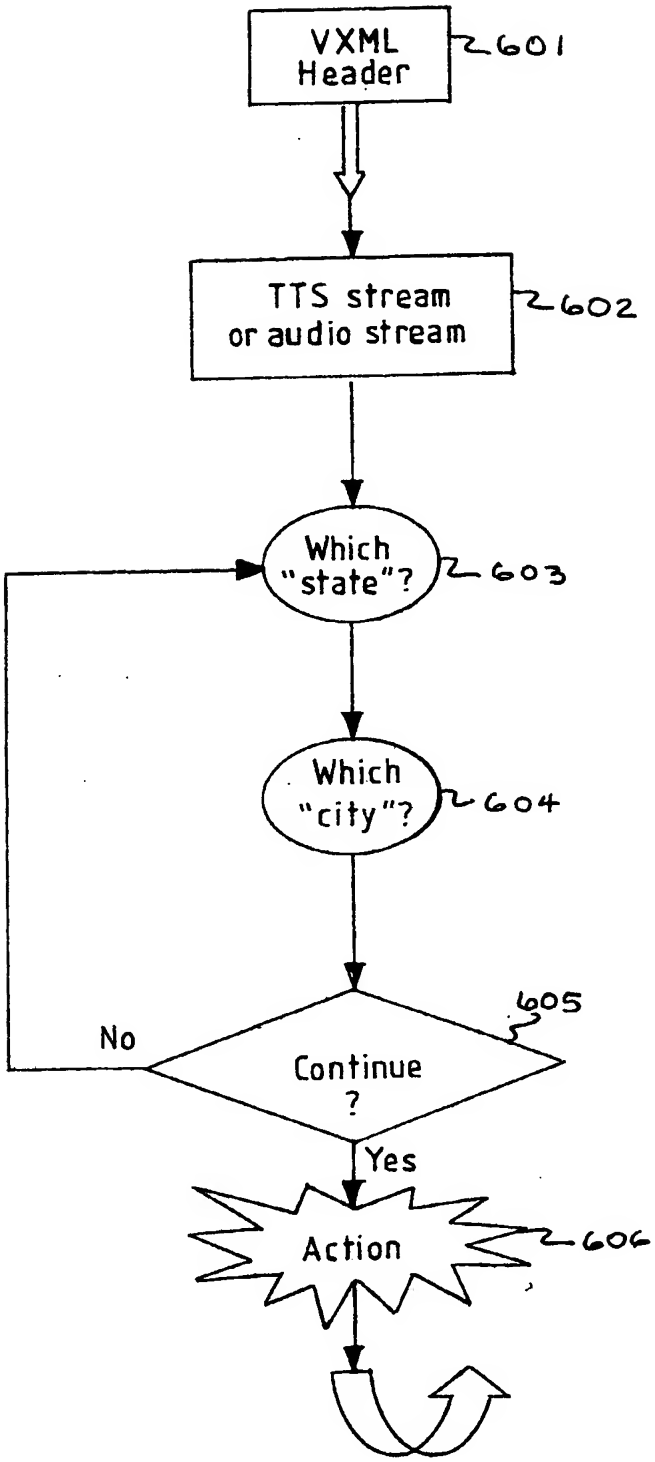
VXML Header
601
TTS stream or audio stream
602
Which "state"?
603
Which "city"?
604
605
Continue ?
No
Yes
Action
606

FIG. 6

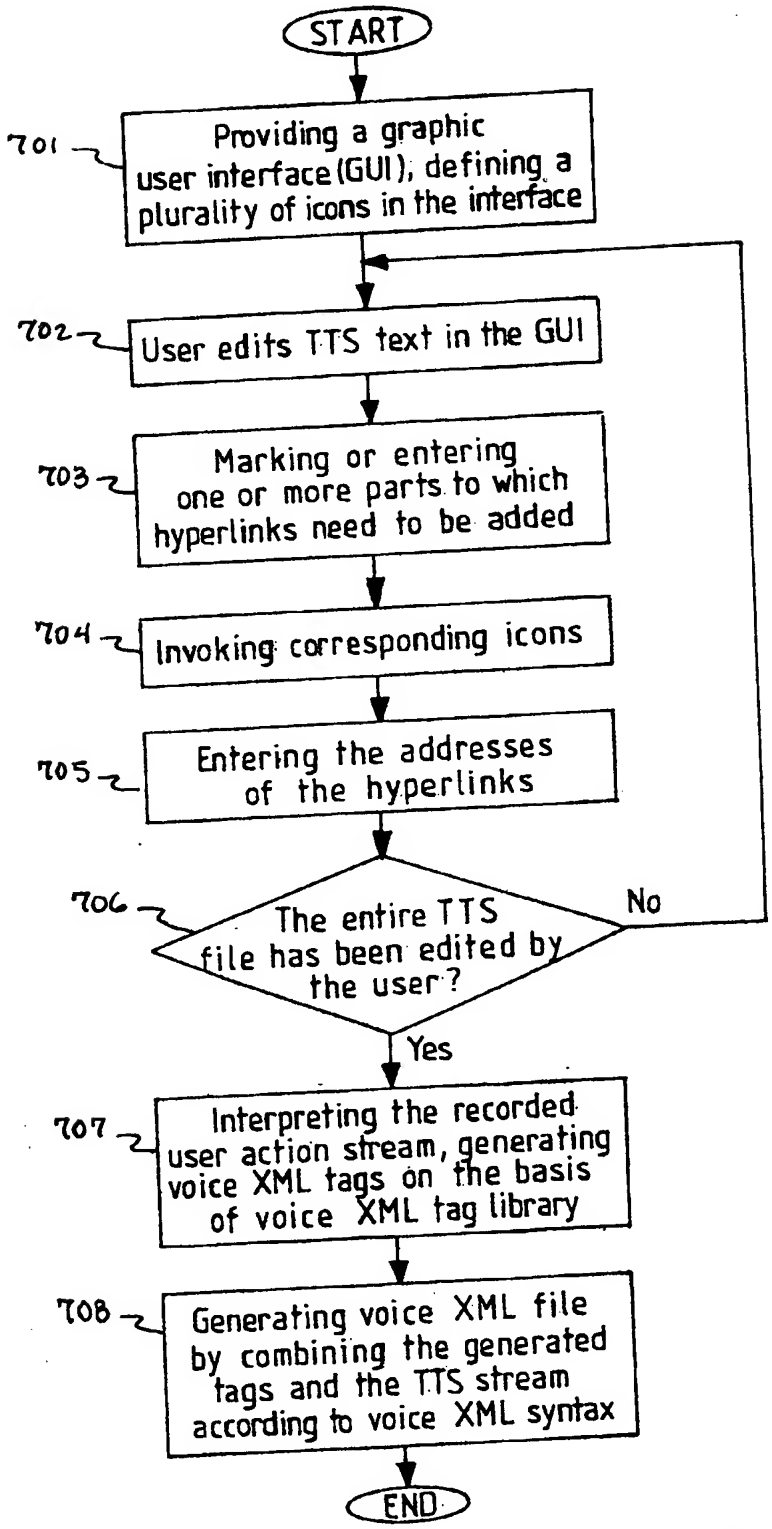
START
701
Providing a graphic user interface (GUI), defining a plurality of icons in the interface
702
User edits TTS text in the GUI
703
Marking or entering one or more parts to which hyperlinks need to be added
704
Invoking corresponding icons
705
Entering the addresses of the hyperlinks
706
The entire TTS file has been edited by the user?
No
Yes
707
Interpreting the recorded user action stream, generating voice XML tags on the basis of voice XML tag library
708
Generating voice XML file by combining the generated tags and the TTS stream according to voice XML syntax
END

FIG. 7

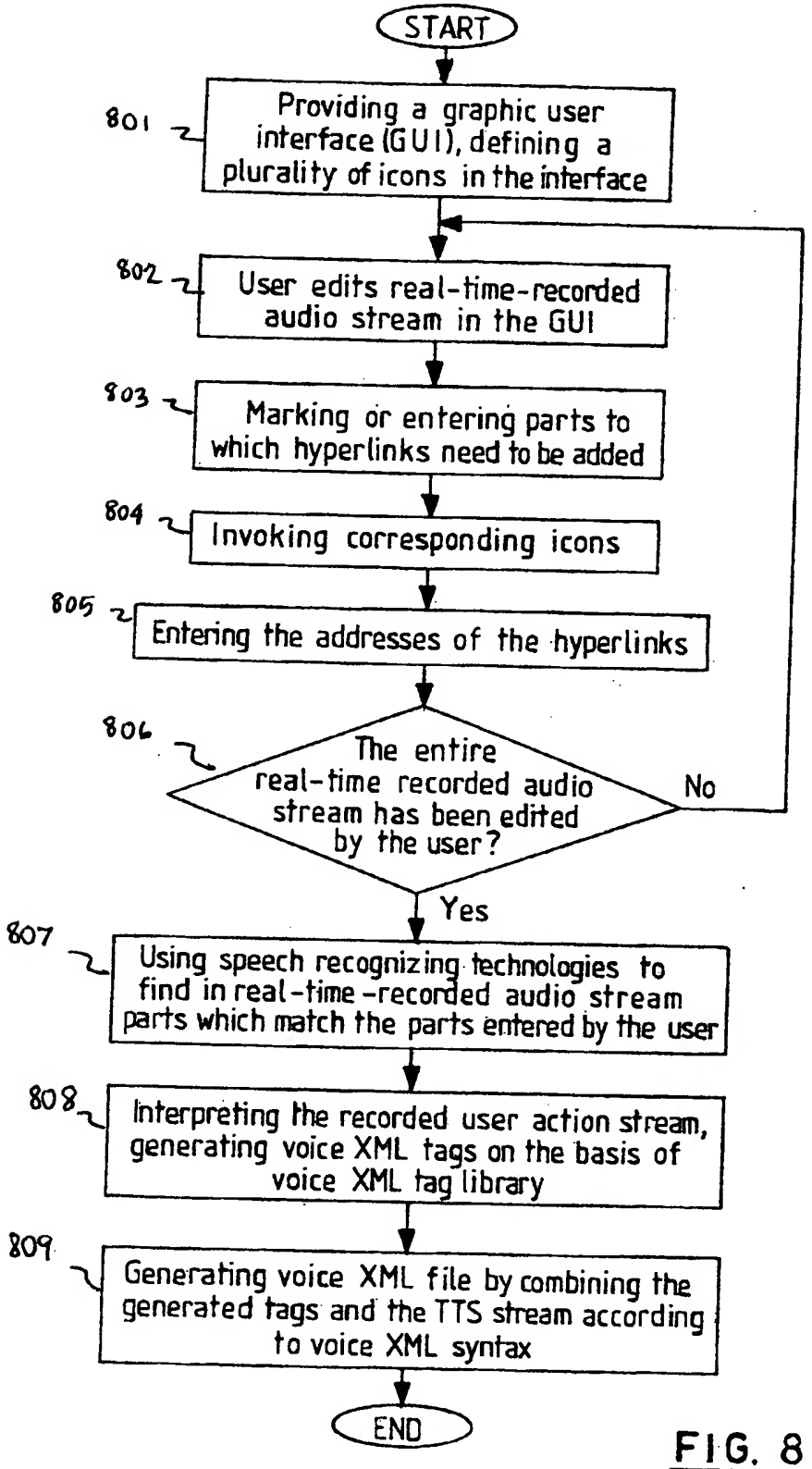
START
801
Providing a graphic user interface (GUI), defining a plurality of icons in the interface
802
User edits real-time-recorded audio stream in the GUI
803
Marking or entering parts to which hyperlinks need to be added
804
Invoking corresponding icons
805
Entering the addresses of the hyperlinks
806
The entire real-time recorded audio stream has been edited by the user?
No
Yes
807
Using speech recognizing technologies to find in real-time-recorded audio stream parts which match the parts entered by the user
808
Interpreting the recorded user action stream, generating voice XML tags on the basis of voice XML tag library
809
Generating voice XML file by combining the generated tags and the TTS stream according to voice XML syntax
END

FIG. 8